

Exhibit K

Botanical Survey Report for 40 Old Colchester Rd. Salem, CT
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The property at 40 Old Colchester Rd. Salem, CT was surveyed for the following Connecticut state listed plant species:

Carex bushii (Bush's sedge) – State Special Concern
Desmodium glabellum (Dillenius' tick-trefoil) – State Special Concern
Platanthera flava var. *herbiola* (Pale green orchid) – State Special Concern

The project site was inventoried three complete times in 2025, on May 7, July 2 and 15, and a third time on August 15 see figures 1-4 for survey routes. The total survey time between the 4 survey dates was about 8-10 hours.

The location is a former gravel pit that is now an open field, figure 5. The field has sloped edges covered in a heavy infestation of mugwort, figure 6. Beyond the sloped edges the boarder of the site has early successional woody species or dry sandy site plants e.g. *Betula populifolia*, *Rhus* species, *Crocianthemum canadense*, *Hypericum gentianoides* that then transitions to acidic woodland species for example black birch and black oak with *Vaccinium* and *Gaylussacia* in the understory. Mugwort is a major component of the vegetation at this site and is found throughout and forms dense stands in places figure 7. There is a central portion of the field that has rock ledge present, it is also covered with early succession and sandy site vegetation like *Populus temuloides*, *P. glandidentata* and the hybrid between the two species see figure 8. After gravel extraction the field was used as an active agricultural field. Despite its heavy use in the past and prevalence of mugwort the site is diverse with 174 vascular plant species observed Table 1. Several sections of the project area were quite wet in the spring, likely it has had gravel removed down close to the water table. During the May survey standing water a few inches deep covered parts of the site. Many wetland plants are common in parts of the site for example *Salix bebbiana*, *S. cinereal*, *Typha*, and *Scirpus cyperinus*.

The state listed species known from the vicinity were extensively looked for but were not found.

***Carex bushii* (Bush's sedge) – State Special Concern**

Several *Carex* species were seen at the location though none resembled *Carex bushii*. Morphologically closest would be *Carex swanii*, though the perigynia of Swan's sedge are densely pilose, which differs from Bush's sedge with papillose perigynia. The plants on this site had clearly pilose perigynia and were definitely Swan's sedge see figure 9.

***Desmodium glabellum* (Dillenius' tick-trefoil) – State Special Concern**

No members of this genus were seen on site. During the July 2 survey I noted the first true leaves of a trifoliate legume, a plant belonging to the same family as *Desmodium*. I thought there was potential for these to be a narrow leaved type of tick-trefoil but not the target species. When I returned for the August 15 survey, I relocated the plants and found they were actually a vining plant *Strophostyles leiosperma* an unusual introduced plant in the state but not of conservation concern, figures 10-12 The more common member of this genus *Strophostyles helvola* was common on the site and has lobed leaflets unlike *Desmodium*.

***Platanthera flava* var. *herbiola* (Pale green orchid) – State Special Concern**

No plants resembling this species were found at this location.

In conclusion the project site at 40 Old Colchester Rd. Salem, CT supports 174 species of vascular plants, but none are state listed.

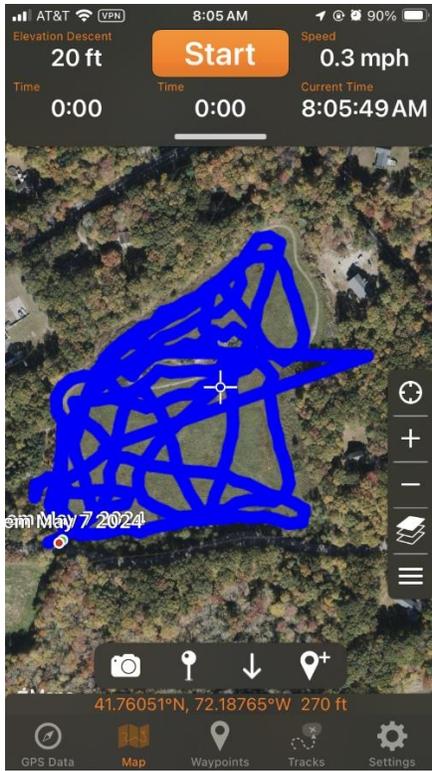


Figure 1. May 7th, 2025 survey route.

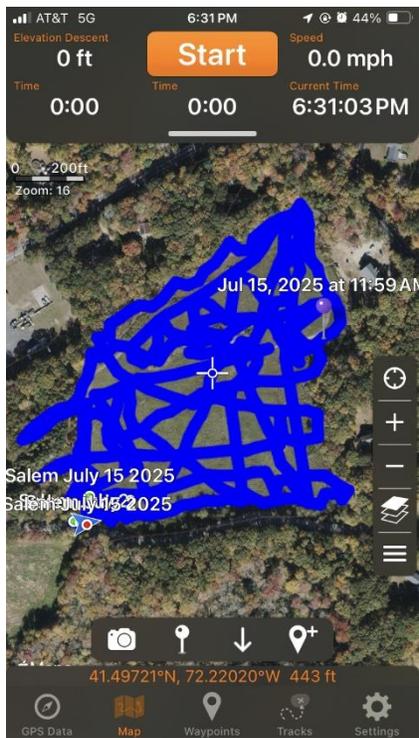


Figure 2. July 2nd and 15th 2025 survey route.

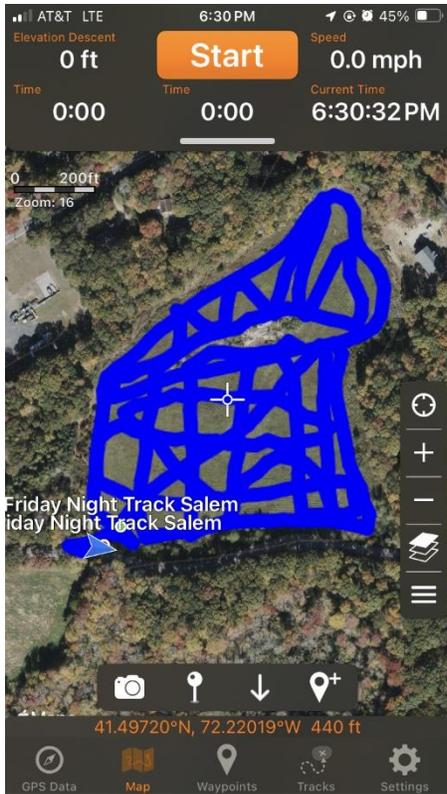


Figure 3. August 15th 2025 survey route.



Figure 4. Combined survey route of all 2025 surveys.



Figure 5. General overview picture of open field conditions at 40 Old Colchester Rd. Salem, CT.



Figure 6. Sloping edge of field with mugwort and early succession woody vegetation at 40 Old Colchester Rd. Salem, CT.



Figure 7. Dense mugwort stand at site entrance.

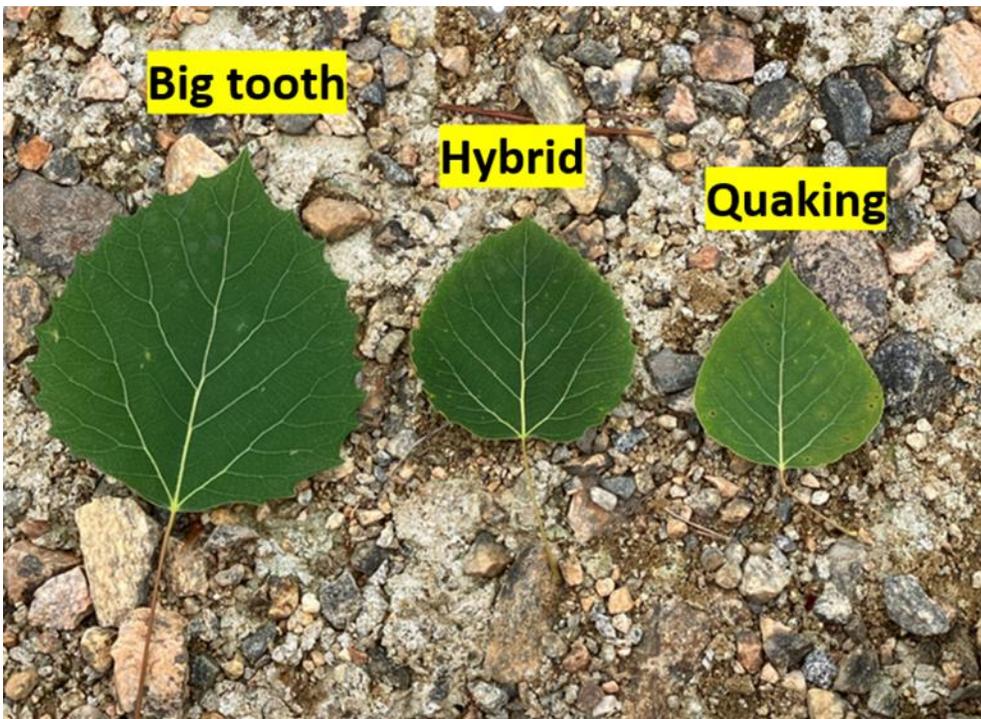


Figure 8. Leaves of *Populus grandidentata*, *P. x smithii*, and *P. tremuloides* found in the central rock ledge portion of the project site.



Figure 9. Pilose perigynia of *Carex swanii* seen at 40 Old Colchester Rd.



Figure 10. Trifoliate leaf of *Strophostyles leiosperma*.



Figure 11. Flower of *Strophostyles leiosperma*.



Figure 12. Fruit of *Strophostyles leiosperma*.

Table 1. List of vascular plant species seen at 40 Old Colchester Rd. Salem, CT during 2025 surveys.

	Species List 40 Old Colchester Rd. Salem, CT 2025		
	Surveyor Bryan Connolly		
	Survey dates May 7, July 2, July 15, Aug 15		
	Common Name	Genus	Species
1	common three-seeded-Mercury	Acalypha	rhomboidea
2	red maple	Acer	rubrum
3	common yarrow	Achillea	millefolium
4	tree-of-heaven	Ailanthus	altissima
5	water-plantain	Alisma	triviale or subcordatum
6	common ragweed	Ambrosia	artemisiifolia
7	broomsedge bluestem	Andropogon	virginicus
8	sweet vernalgrass	Anthoxanthum	odoratum
9	common ground-nut	Apios	americana
10	dogbane or Indian hemp	Apocynum	cannabinum
11	mouse-ear thale-cress	Arabidopsis	thaliana
12	common wormwood	Artemisia	vulgaris
13	common milkweed	Asclepias	syriaca
14	yellow wild indigo	Baptisia	tinctoria
15	garden yellow-rocket	Barbarea	vulgaris
16	Japanese barberry	Berberis	thunbergii
17	yellow birch	Betula	alleghaniensis
18	black birch	Betula	lenta
19	gray birch	Betula	populifolia
20	beggar-ticks	Bidens	frondosa/vulgata
21	hedge false bindweed	Calystegia	sepium
22	hairy bitter-cress	Cardamine	hirsuta
23	sallow sedge	Carex	lurida
24	pointed broom sedge	Carex	scoparia
25	Swan's sedge	Carex	swanii
26	bearded sedge	Carex	comosa
27	greater bladder sedge	Carex	intumescens
28	hop sedge	Carex	lupulina
29	Awl-fruited Sedge	Carex	stipata
30	mockernut hickory	Carya	tomentosa
31	American chestnut	Castanea	dentata
32	Asian bittersweet	Celastrus	orbiculatus
33	spotted knapweed	Centaurea	stoebe
34	mouse-ear chickweed	Cerastium	fontanum

35	wild sensitive-pea	Chamaecrista	nictitans
36	lambsquarters	Chenopodium	album
37	common thistle	Cirsium	vulgare
38	Asiatic dayflower	Commelina	communis
39	sweet-fern	Comptonia	peregrina
40	beaked hazelnut	Corylus	cornuta
41	Canada frostweed	Crocanthemum	canadense
42	straw-colored flatsedge	Cyperus	strigosus
43	orchard grass	Dactylis	glomerata
44	wild carrot	Daucus	carota
45	eastern hay-scented fern	Dennstaedtia	punctilobula
46	Deptford pink	Dianthus	armeria
47	deer-tongue grass	Dichanthelium	clandestinum
50	autumn-olive	Elaeagnus	umbellata
51	blunt spikesedge	Eleocharis	obtusa
52	goosegrass	Eleusine	indica
53	creeping wild-rye	Elymus	repens
54	willow-herb	Epilobium	sp.
55	tufted lovegrass	Eragrostis	pectinacea
56	annual fleabane	Erigeron	annuus
57	Canada fleabane	Erigeron	canadensis
58	burning-bush	Euonymus	alatus
59	boneset thoroughwort	Eupatorium	perfoliatum
60	common grass-leaved-goldenrod	Euthamia	graminifolia
61	Japanese knotweed	Fallopia	japonica (or x bohemica)
62	common strawberry	Fragaria	virginiana
63	white ash	Fraxinus	americana
64	green ash	Fraxinus	pennsylvanica
65	scratch bedstraw	Galium	aparine
66	three-petaled bedstraw	Galium	trifidum
67	black huckleberry	Gaylussacia	baccata
68	white avens	Geum	canadense
69	floodplain avens	Geum	laciniatum
70	yellow hawkweed	Hieracium	caespitosum
71	Azure Bluet	Houstonia	caerulea
72	orange-grass St. John's-wort	Hypericum	gentianoides
73	common St. John's-wort	Hypericum	perforatum
74	winterberry	Ilex	verticillata
75	joint-leaved rush	Juncus	articulatus
76	Juncus dichotomus	Juncus	dichotomus
77	common soft rush	Juncus	effusus
78	eastern red cedar	Juniperus	virginiana
79	Mountain Laurel	Kalmia	latifolia

80	tall lettuce	Lactuca	canadensis
81	Red Deadnettle	Lamium	purpureum
82	pinweed	Lechea	sp.
83	rice cut grass	Leersia	oryzoides
84	round-headed bush-clover	Lespedeza	capitata
85	yellow-seeded false pimpernel	Lindernia	dubia
86	tuliptree	Liriodendron	tulipifera
87	indian-tobacco	Lobelia	inflata
88	Morrow's honeysuckle	Lonicera	morrowii (or x bella)
89	garden bird's-foot-trefoil	Lotus	corniculatus
90	common water-primrose	Ludwigia	palustris
91	Seedbox	Ludwigia	alternifolia
92	common wood rush	Luzula	multiflora
93	whorled yellow-loosestrife	Lysimachia	quadrifolia
94	purple loosestrife	Lythrum	salicaria
95	Canada-mayflower	Maianthemum	canadense
96	pineapple weed	Matricaria	discoidea
97	Black Medick	Medicago	lupulina
98	white sweet-clover	Melilotus	albus
99	Allegheny monkey-flower	Mimulus	ringens
100	small bayberry	Morella	caroliniensis
101	white mulberry	Morus	alba
102	oldfield-toadflax	Nuttallanthus	canadensis
103	common evening-primrose	Oenothera	biennis
104	Virginia-creeper	Parthenocissus	quinquefolia
105	Oriental lady's-thumb smartweed	Persicaria	longiseta
106	false water-pepper smartweed	Persicaria	hydropiperoides
107	reed canary grass	Phalaris	arundinacea
108	eastern white pine	Pinus	strobus
109	English plantain	Plantago	lanceolata
110	common plantain	Plantago	major
111	dooryard knotweed	Polygonum	aviculare
112	Barnes' Aspen	Populus	xsmithii
113	eastern cottonwood	Populus	deltoides
114	bigtooth aspen	Populus	grandidentata
115	quaking aspen	Populus	tremuloides
116	dwarf cinquefoil	Potentilla	canadensis
117	Norwegian cinquefoil	Potentilla	norvegica
118	common cinquefoil	Potentilla	simplex
119	heal-all	Prunella	vulgaris
120	black cherry	Prunus	serotina
121	white oak	Quercus	alba
122	red oak	Quercus	rubra

123	black oak	Quercus	velutina
124	smooth sumac	Rhus	glabra
125	winged sumac	Rhus	copallinum
126	staghorn sumac	Rhus	hirta a.k.a. typhina
127	black locust	Robinia	pseudoacacia
128	yellow-cress	Rorippa	sp.
129	multiflora rose	Rosa	multiflora
130	common blackberry	Rubus	allegheniensis
131	northern dewberry	Rubus	flagellaris
132	black raspberry	Rubus	occidentalis
133	wineberry	Rubus	phoenicolasius
134	bristly blackberry	Rubus	hispidus
135	Black-eyed Susan	Rudbeckia	hirta
136	sheep sorrel	Rumex	acetosella
137	curly dock	Rumex	crispus
138	long-beaked willow	Salix	bebbiana
139	gray willow	Salix	cinerea
140	little bluestem	Schizachyrium	scoparium
141	Soft-stemmed Bulrush	Schoenoplectus	tabernaemontani
142	woolgrass	Scirpus	cyperinus
143	Chinese foxtail	Setaria	faberi
144	yellow foxtail	Setaria	pumila
145	glaucous-leaved greenbriar	Smilax	glauca
146	early goldenrod	Solidago	juncea
147	gray goldenrod	Solidago	nemoralis
148	common wrinkle-leaved goldenrod	Solidago	rugosa
149	tall goldenrod	Solidago	altissima
150	blue-stem goldenrod	Solidago	caesia
151	small-flowered woolly bean	Strophostyles	leiosperma
152	annual woolly bean	Strophostyles	helvola
153	silky dogwood	Swida	amomum
154	purple-stemmed American-aster	Symphotrichum	puniceum
155	awl American-aster	Symphotrichum	pilosum
156	common dandelion	Taraxacum	officinale
157	poison-ivy	Toxicodendron	radicans
158	rabbitfoot clover	Trifolium	arvense
159	red clover	Trifolium	pratense
160	palmate hop clover	Trifolium	aureum
161	Alsike clover	Trifolium	hybridum
162	white clover	Trifolium	repens
163	eastern hemlock	Tsuga	canadensis
164	broad-leaved cat-tail	Typha	latifolia (or maybe x glauca)
165	highbush blueberry	Vaccinium	corymbosum

166	hillside blueberry	Vaccinium	pallidum
167	common mullein	Verbascum	thapsus
168	common speedwell	Veronica	officinalis
169	purslane speedwell	Veronica	peregrina
170	maple-leaved viburnum	Viburnum	acerifolium
171	vetch	Vicia	sp.
172	four-seeded vetch	Vicia	tetrasperma
173	arrowhead violet	Viola	sagittata var. ovata a.k.a fimbriatula
174	fox grape	Vitis	labrusca